

COMBUSTION AIR- SIZING 2010 CALIFORNIA MECHANICAL CODE SECTION 701.2.1.1 STANDARD METHOD EQUATIONS: 701.2.1.1 (a) & (b)

COMBUSTION AIR

701.2.1 Standard Method

The minimum required volume shall be fifty (50) cubic feet per 1,000 Btu/hour (4.8 m³/kW) (NFPA 54:9.3.2.1)

701.2.1.1 Known Air Filtration Rate Method Equations.

Equation 701.2.1.1 (a):

Required Volume $_{other} \geq (21 \text{ ft}^3 / \text{ACH}) \times$
(I $_{other}$ / 1,000 Btu/hr)

Equation 701.2.1.1 (b):

Required Volume $_{other} \leq (15 \text{ ft}^3 / \text{ACH}) \times$
(I $_{fan}$ / 1,000 Btu/hr)

WHERE:

I $_{other}$ = all appliances other than fan-assisted input in Btu per hour

I $_{fan}$ = fan-assisted appliance input in Btu per hour

ACH= air change per hour (percent of volume of space exchanged per hour, expressed as decimal)